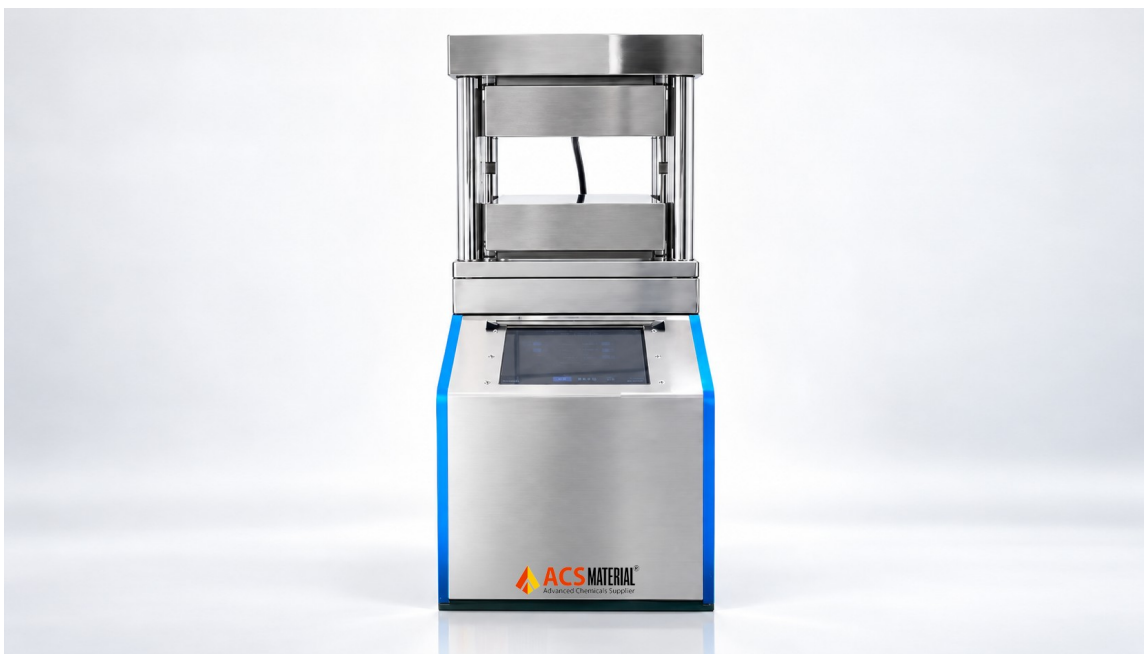


TECHNICAL DATA SHEET

PressPro™ Dual Flat Heating Plate Automatic Hot Press Machine

Automatic pressurization · dual flat heating plate up to 500°C · 30-stage programmable temperature control · 7-inch touch LCD



PressPro™ EHPHAZ Series — Representative Configuration

The PressPro™ Dual Flat Heating Plate Automatic Hot Press Machine (EHPHAZ and EHPHAZG series) covers eight models with maximum press capacities up to 40 T. Image shown for reference. Dimensions and configuration vary by model.

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SECTION I

Product Overview

The PressPro™ Dual Flat Heating Plate Automatic Hot Press Machine (EHPAZ and EHPAZG series) uses electric hydraulic drive in an integrated structure: an automatic hydraulic press with integrated 7-inch touch LCD control and customizable hot pressing molds. The dual flat heating plates — with the upper plate fixed, polished surface plates and four-column bearing positioning — combine automatic pressurization with 30-stage programmable temperature control, for high-end laboratories. The touchscreen calculates the sample pressure (MPa) automatically in real time.

The EHPAZ series covers four models (EHPAZ01, EHPAZ02, EHPAZ03, EHPAZ04) with maximum press capacities of 25 T, 30 T and 40 T, heating plates of 180×180mm to 400×400mm, and heating from room temperature to 300°C / 0.1°C. The EHPAZG series covers four models (EHPAZG1, EHPAZG2, EHPAZG3, EHPAZG4) with the same capacities and plate sizes, and heating from room temperature to 500°C / 0.1°C. A water chiller is required when the temperature exceeds 300°C. Die molds are optional and customizable, not included.

SECTION II

Core Advantages

- **Automatic electric hydraulic drive** — automatic pressurization / automatic gradual pressurization – automatic pressure holding – precise pressure compensation – timed pressure release; programmed pressing cycles
- **Dual flat heating plates, upper plate fixed** — heating and pressing on both the upper and the lower flat plates; polished surface plates with four-column bearing positioning
- **30-stage programmable temperature control** — 30-stage programmable temperature control with automatic heating, programmed heating profiles, controlled-rate heating, automatic temperature holding, and natural cooling; temperature hold time unlimited seconds, configurable per stage
- **7-inch touch LCD screen** — pressure display – temperature control system – data management system on a 7-inch touch LCD screen; remote control optional
- **Safety configurations** — automatic pressure relief when system pressure exceeds the safety limit, plus emergency stop switch (light curtain protection optional); “Caution: Hot Surface” signal when the temperature exceeds 50°C; power supply with leakage protector; a water chiller is required when the temperature exceeds 300°C
- **Integrated structure** — automatic hydraulic press with integrated 7-inch touch LCD control; fixed upper heating plate
- **5-stage pressurization, upgradeable to 30 stages** — 5 pressurization stages configurable per stage, upgradeable to 30 stages; pressure hold time unlimited seconds, configurable per stage
- **Up to 500°C heating, depending on the model** — heating from room temperature to 300°C / 0.1°C (EHPAZ series) or 500°C / 0.1°C (EHPAZG series)
- **Real-time sample pressure conversion** — automatic calculation of the sample pressure (MPa) in real time
- **Flexible configuration** — hot pressing molds optional and customizable (not included); air/water cooling chiller optional; workspace height extendable; two series and eight models for sample-size and tonnage selection

SECTION III

Specifications

Technical data

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EHPAZ01 · EHPAZ02 · EHPAZ03 · EHPAZ04 · EHPAZG1 · EHPAZG2 · EHPAZG3 · EHPAZG4
Series	EHPAZ and EHPAZG – Dual Flat Heating Plate Automatic Hot Press Machine
Available Maximum Capacities	25 / 30 / 40 T, depending on model
Pressurization Method	Automatic pressurization / automatic gradual pressurization – automatic pressure holding –

	precise pressure compensation – timed pressure release
Pressurization Stages	5 stages, configurable per stage (upgradeable to 30 stages)
Control Interface	7-inch touch LCD screen (remote control optional); pressure display – temperature control system – data management system (USB upgradeable)
Sample Pressure Conversion	Real-time automatic calculation of sample pressure (MPa)
Temperature Control System	30-stage programmable temperature control with automatic heating, programmed heating profiles, controlled-rate heating, automatic temperature holding, and natural cooling
Pressure Hold Time	Unlimited seconds, configurable per stage
Temperature Hold Time	Unlimited seconds, configurable per stage
Hot Pressing Plate Cooling Method	Natural cooling (air/water cooling chiller optional)
Insulation Method	Imported insulation plate + stainless steel water-cooled insulation plate. A water chiller is required when the temperature exceeds 300°C.
Pressure Safety Configuration	Automatic pressure relief when system pressure exceeds the safety limit; emergency stop switch (light curtain protection optional)
High-temperature Safety Configuration	When the temperature exceeds 50°C, the temperature controller automatically signals “Caution: Hot Surface” (high-temperature protective cover optional)
Power Supply	220V (50Hz/60Hz) with leakage protector
Configuration	1 main machine; air/water cooled chiller optional, not included; workspace height extendable; hot pressing molds customizable according to requirements

EPHPAZ series

Specifications				
Parameter	EPHPAZ01	EPHPAZ02	EPHPAZ03	EPHPAZ04
Pressure Range	0.3-25T/0.1t	0.3-25T/0.1t	0.3-30T/0.1t	0.5-40T/0.1t
Piston Diameter	Ø95mm	Ø95mm	Ø110mm	Ø130mm
Hot Pressing Plate Type	Dual flat plate heating and pressing, polished surface plate, four-column bearing positioning, upper plate fixed.			
Hot Pressing Plate Size	180×180mm	200×200mm	300×300mm	400×400mm
Workspace	W 180×65mm	W 200×65mm	W 300×65mm	W 400×65mm
Heating Temperature	Room temperature to 300°C / 0.1°C	Room temperature to 300°C / 0.1°C	Room temperature to 300°C / 0.1°C	Room temperature to 300°C / 0.1°C
Maximum Power	2200W (900W×2+100W+300W)	2200W	4500W	5500W
Overall Dimensions	360×460×600mm	360×460×620mm	470×440×600mm	570×540×640mm
Approx. Weight	155kg	165kg	330kg	420kg

EPHPAZG series

Specifications				
Parameter	EPHPAZG1	EPHPAZG2	EPHPAZG3	EPHPAZG4
Pressure Range	0.3-25T/0.1t	0.3-25T/0.1t	0.3-30T/0.1t	0.5-40T/0.1t
Piston Diameter	Ø95mm	Ø95mm	Ø110mm	Ø130mm
Hot Pressing Plate Type	Dual flat plate heating and pressing, polished surface plate, four-column bearing positioning, upper plate fixed.			
Hot Pressing Plate Size	180×180mm	200×200mm	300×300mm	400×400mm
Workspace	W 180×65mm	W 200×65mm	W 300×65mm	W 400×65mm
Heating Temperature	Room temperature to 500°C / 0.1°C	Room temperature to 500°C / 0.1°C	Room temperature to 500°C / 0.1°C	Room temperature to 500°C / 0.1°C
Maximum Power	2200W (900W×2+100W+300W)	2200W	4500W	5500W
Overall Dimensions	360×460×600mm	360×460×620mm	470×440×600mm	570×540×640mm
Approx. Weight	155kg	165kg	330kg	420kg

Scope of delivery

— **Standard configuration** — EPHPAZ and EPHPAZG series — **Optional, not included** — air/water cooled chiller; hot

main machine (dual flat heating plate automatic hot press with pressing molds customizable according to requirements integrated 7-inch touch LCD control)

Final accessories and scope of supply are confirmed in the quotation.

SECTION IV

Applications

For laboratory hot-pressing applications requiring automatic pressurization and programmable temperature control. The integrated electro-hydraulic design features a fixed upper heating plate and four-column bearing positioning. Select the model, plate size, temperature range, and pressing capacity according to the sample and experimental requirements.

Product value: eight models with maximum press capacities up to 40 T, dual flat heating plates up to 500°C, and 30-stage programmable temperature control with automatic heating and temperature holding. A water chiller is required when the temperature exceeds 300°C. Confirm the selected model, heating temperature, plate size and mold against your sample dimensions and application requirements before ordering.

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